



ASC Competition Commercial, Region 7		REQUEST FOR INFORMATION		R.F.I. NO:
		FOR		ISSUING ENTITY: Hensel Phelps
		Solano County Classroom and Vocational Training Center		
SHEETS: C400, C401	DETAILS / SECTIONS: N/A	SPECIFICATIONS REF: 33 22 00		
TITLE OR SECTION OF WORK: <div style="text-align: center;">SITE - Sewer Line Slopes</div>				
PERTINENT PROBLEM SECTION: Section 7: Change Management		ISSUED BY: HP DATE: 02/07/19		
WRITTEN DESCRIPTION OF PROBLEM - ATTACH SKETCHES AS REQUIRED: <p>In reviewing the invert elevations provided on Site Utility plans C400 and C401, several of the sewer line pipes have less than 1% fall. Take for example the sewer manhole at the trash enclosure shown on sheet C400. The invert elevation at this manhole is listed to be 51.30. Traveling east to the closest clean out, the invert elevation at the cleanout is 50.90. The distance between these two points is around 160.5 ft. That equates to a .25% fall at this location. Sheet note S1 states "install PVC sewer line; size, length and slope per plan."</p> <p>1.Please confirm this is the intent of this system to have locations with less than 1% fall.</p>				
A/E RESPONSE: <p>[Initial Response] The intent is to have some of the sewer lines at less than 1% slope. Due to the topography on site and the tie-in at the existing sewer line, some of the sewer lines will have less than 1% of slope. Calculations were performed to ensure minimum velocity rates. Despite the generally flat topography of the site, the only line that has issues with flow is the drainage from the trash enclosure. Raising the inverts for the trash enclosure line would have created a cascading list of problems. When faced with the decision to raise this line and create a long list of issues, or to allow the line that only serves the trash enclosure to be less than ideal, it was decided to allow this single line to be less than ideal.</p> <p>[First Revised Response - received 1 month after "initial response"] The sewer line is currently being redesigned to ensure that all lines have a minimum slope of 2%. Sheets C400 and C401 were reissued, reflecting these changes.</p> <p>[Second & Final Revised Response - received 1 month after "first revised response"] This RFI initiated the issuance of Design Bulletin 01 (Addendum 1).</p>				
BY:		DATE:		
DISTRIBUTION:				

Design Bulletin #1

Sanitary Sewer Revisions

**Solano County
Classroom and VTC**

10/14/2016 7:39:09 AM

CIVIL ABBREVIATIONS			CIVIL MATERIALS			CIVIL SYMBOLS (SCREENED IF EXISTING)	
SYMBOL @	AND AT	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	DESCRIPTION
AB		ANCHOR BOLT, AGGREGATE BASE	FB	FACE OF BLOCK	R, RAD	RETURN, RADIUS, RIDGE LINE	
ABS		ACRYLONITRILE-BUTADIENE-STYRENE	FBN	FOUNDATION	RCPP	REINFORCED CONCRETE PRESSURE PIPE	
AC		ASPHALT CONCRETE	FES	FLARED END SECTION	RC	REINFORCED CONCRETE	
ACP		ASBESTOS CEMENT PIPE	FF	FINISH FLOOR	RCP	REINFORCED CONCRETE PIPE	
ACI		AMERICAN CONCRETE INSTITUTE	FG	FINISHED GRADE	RD	ROAD, ROOF DRAIN	
AD		AREA DRAIN	FH	FIRE HYDRANT	RDCR	REDUCER	
AFF		ABOVE FINISHED FLOOR	FIG	FIGURE	RDW	REDWOOD	
AISC		AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FL	FLOW LINE	REINF	REINFORCE(D), REINFORCING	
AL		ALUMINUM	FNSH	FINISH	REQD	REQUIRED	
APPROX		APPROXIMATE	FM	FORCE MAIN	R/W,ROW	RIGHT-OF-WAY	
APVD		APPROVED	FT	FOOT OR FEET	RT	RIGHT	
ARCH		ARCHITECTURAL	FTG	FOOTING	RW	RECLAIMED WATER	
ARV		AIR RELEASE VALVE	FW	FIRE WATER			
ASPH		ASPHALT	FWD	FORWARD			
AUTO		AUTOMATIC	°F	DEGREE FAHRENHEIT	S	SLOPE, SOUTH, STANDARD	
AUX		AUXILIARY			SAD	SEE ARCHITECTURAL DRAWINGS	
			G	NATURAL GAS	SCHED	SCHEDULE	
BC		BEGIN CURVE	GA	GAUGE	SD	STORM DRAIN	
BF		BLIND FLANGE, BOTTOM FACE	GAL	GALLON	SDMH	STORM DRAIN MANHOLE	
BFC		BACK FACE OF CURB	GALV	GALVANIZED	SECT	SECTION	
BFF		BELOW FINISHED FLOOR	GPD	GALLONS PER DAY	SED	SEE ELECTRICAL DRAWINGS	
BLDG		BUILDING	GPH	GALLONS PER HOUR	SHT	SHEET	
BM		BENCH MARK, BEAM	GPM	GALLONS PER MINUTE	SIM	SIMILAR	
BO		BLOW OFF	GSP	GALVANIZED STEEL PIPE	SLB	CONC SLAB	
BS		BOTTOM OF SWALE	GV	GATE VALVE	SLP	SLOPE	
BTWN		BETWEEN	GVL	GRAVEL	SPEC	SPECIFICATIONS	
BVC		BEGINNING OF VERTICAL CURVE			SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	
BW		BARBED WIRE, BOTTOM OF WALL	HB	HOSEBIB	SMD	SEE MECHANICAL DRAWINGS	
			HORIZ	HORIZONTAL	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	
C		CHANNEL (BEAM), COMPACT	HP	HIGH POINT, HORSEPOWER	SQ	SQUARE	
CLTRANS		CALIFORNIA DEPARTMENT OF TRANSPORTATION	HR	HANDRAIL	SQ FT, SF	SQUARE FOOT	
CSQA		CALIFORNIA STORMWATER QUALITY ASSOCIATION	HT	HEIGHT	SQ IN	SQUARE INCH	
CB		CATCH BASIN	HW	HOT WATER	SS	SANITARY SEWER	
CDCR		CALIFORNIA DEPARTMENT OF CORRECTIONS & REHABILITATION	HWS&R	HOT WATER SUPPLY & RETURN	SSD	SEE STRUCTURAL DRAWINGS	
CDF		CONTROL DENSITY FILL	ID	INSIDE DIAMETER	SSMH	SANITARY SEWER MANHOLE	
CG		CHLORINE GAS	IE	INVERT ELEVATION	SST	STAINLESS STEEL	
CI		CURB INLET	IN	INCH	STA	STATION	
CMJ		CAST IRON MECHANICAL JOINT	INV	INVERT	STD	STANDARD	
CIP		CAST IRON PIPE	IRR	IRRIGATION	STL	STEEL, STEEL PIPE	
CJ		CONSTRUCTION JOINT	JT	JOINT	STR	STRAIGHT	
CLR		CLEARANCE			STRUCT	STRUCTURE	
CL		CENTERLINE	KIP	THOUSAND POUNDS	SW	SIDEWALK	
CMIS		CORRECTIONAL MANAGEMENT INFORMATION SYSTEM	KW	KILOWATT	SWPPP	STORMWATER POLLUTION PREVENTION PLAN	
					SYMM	SYMMETRICAL	
CMP		CORRUGATED METAL PIPE	L	LEFT, ANGLE, LENGTH, LINED	T	TANGENT	
CMU		CONCRETE MASONRY UNIT	LB	POUNDS	T&B	TOP AND BOTTOM	
CO		CLEANOUT	LB/CU FT	POUNDS PER CUBIC FOOT	TC	TOP OF CURB	
COR		CORNER	LDG	LANDING	TEL	TELEPHONE	
COL		COLUMN	LF	LINEAR FEET	TEMP	TEMPORARY	
CONC		CONCRETE	LL	LIVE LOAD	T&G	TONGUE AND GROOVE	
CONN		CONNECTION	LOC	LOCATE, LOCATION	THK	THICK	
CONT		CONTINUOUS	LONG	LONGITUDINAL	TOC	TOP OF CONCRETE	
COTG		CLEANOUT TO GRADE	LP	LOW POINT	TOF	TOP OF FOOTING	
CPLG		COUPLING	LPG	LIQUEFIED PETROLEUM GAS	TOS	TOP OF STEEL	
CPVC		CHLORINATED POLYVINYL CHLORIDE	LR	LONG RADIUS	TP	TOP OF PAVEMENT	
CSP		CORRUGATED STEEL PIPE	LT	LEFT	TRANSV	TRANSVERSE	
CTR		CENTERED			TS	TOP OF SWALE	
C		CENTER TO CENTER	MAX	MAXIMUM	TW	TOP OF WALL	
CU		CUBIC	MECH	MECHANICAL	TYP	TYPICAL	
CU FT		CUBIC FOOT	MFR	MANUFACTURER			
CU IN		CUBIC INCH	MGD	MILLION GALLONS PER DAY	UG	UNDERGROUND	
CU YD, CY		CUBIC YARD	MH	MANHOLE	UNO	UNLESS NOTED OTHERWISE	
CW		COLD WATER	MI	MALLEABLE IRON			
CV		CHECK VALVE	MIN	MINIMUM	V	VENT, VOLT, VALVE	
°C		DEGREE CELSIUS	MISC	MISCELLANEOUS	VAC	VACUUM	
			MJ	MECHANICAL JOINT	VC	VERTICAL	
			MOC	MIDDLE OF CURVE	VOC ED	VOCATIONAL EDUCATION	
					VPI	VERTICAL POINT OF INTERSECTION	
					VCP	VITRIFIED CLAY PIPE	
d		PENNY (NAIL SIZE)	N	NORTH	W/	WITH	
DB		DISTRIBUTION BOX	(N)	NEW	W/O	WITHOUT	
DBA		DEFORMED BAR ANCHOR	N200000	NORTHING (COORDINATE)	W	WIDE FLANGE (BEAM), WEST, WATER	
DDCV		DOUBLE DETECTOR CHECK VALUE	NIC	NOT IN CONTRACT	WSP	WELDED STEEL PIPE	
DEPT		DEPARTMENT	NO	NUMBER, NUMBERING	WTR	WATER	
DET		DETAIL	NPT	NATIONAL PIPE THREAD	WWF	WELDED WIRE FABRIC	
DF		DRINKING FOUNTAIN	NTS	NOT TO SCALE	WWM	WELDED WIRE MESH	
DI		DROP INLET, DUCTILE IRON			WW	WATER VALVE	
DIA		DIAMETER	OC	ON CENTER	XFMR	TRANSFORMER	
DIAG		DIAGONAL	OCPI	ON CONCRETE PIPE INLET	YD	YARD	
DIM		DIMENSION	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN			
DIMJ		DUCTILE IRON MECHANICAL JOINT	OF	OUTSIDE FACE			
DIP		DUCTILE IRON PIPE	OG	ORIGINAL GROUND			
DIPGL		DUCTILE IRON PIPE GLASS LINED	OZ	OUNCE			
DL		DEAD LOAD	O/H	OVERHEAD			
DIR		DIRECTION	PC	POINT OF CURVE			
DN		DOWN	PCC	POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE			
DW		DOMESTIC WATER					
DWG		DRAWING	PI	POINT OF INTERSECTION			
			PIV	POST INDICATOR VALVE			
E580000		EASTING (COORDINATE)	PL	PLATE (STEEL)			
E		ELECTRICAL, EAST	PLYWD	PLYWOOD			
(E)		EXISTING	POC	POINT OF CONNECTION			
EA		EACH	POT	POINT OF TANGENCY			
EC		END CURVE	PP	POWER POLE			
ECC		ECCENTRIC	PR	PAIR			
EF		EACH FACE	PRC	POINT OF REVERSE CURVATURE			
EJ		EXPANSION JOINT	PRCST	PRE CAST			
EL, ELEV		ELEVATION	PREFAB	PREFABRICATED			
ELB, ELL		ELBOW	PRESS	PRESSURE			
ELC		ELECTRIC, ELECTRICAL	PRI	PRIMARY			
ENGR		ENGINEER	PRV	PRESSURE REDUCING VALVE			
EP		EDGE OF PAVEMENT	P/L	PROPERTY LINE			
EQPT		EQUIPMENT	R	PLATE			
EVC		END OF VERTICAL CURVE	PSF	POUNDS PER SQUARE FOOT			
EW		EACH WAY	PSI	POUNDS PER SQUARE INCH			
EXP		EXPOSED, EXPANSION	PSIG	POUNDS PER SQUARE INCH, GAUGE			
EXP JT		EXPANSION JOINT	P&E	PACIFIC GAS & ELECTRIC			
EXST, EXIST, (E)EXISTING		EXISTING	PT	POINT OF TANGENCY, POINT			
EG		EXISTING GRADE	PVC	POLYVINYL CHLORIDE PLASTIC			
EQ		EQUAL	PVI	POINT OF VERTICAL INTERSECTION			

NOTES:
1. THIS IS A STANDARD ABBREVIATION SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

CIVIL MATERIALS

SYMBOL	DESCRIPTION
	LANDSCAPING
	ASPHALT CONCRETE
	CONCRETE
	EARTH
	AGGREGATE
	ROCK SLOPE PROTECTION
	LIME TREATMENT AREA
	REMOVE EXISTING / SURFACE IMPROVEMENTS
	BIOSWALE / WATER TREATMENT AREA

CIVIL SYMBOLS (SCREENED IF EXISTING)

SYMBOL	DESCRIPTION
	CHAIN LINK FENCE
	SINGLE LEAF SWING GATE
	DOUBLE LEAF SWING GATE
	SLIDING GATE
	BIOSWALE/WATER TREATMENT AREA BOUNDARY
	PROPERTY LINE / RIGHT OF WAY
	LIMIT OF WORK
	CLEARING LIMITS
	LIMITS OF OVEREXCAVATION (PER STRUCTURAL)
	CONTOUR
	DRAINAGE SWALE / SURFACE FLOWLINE
	TOP OF SLOPE LINE (OPEN IF EXISTING)
	RIDGE LINE
	SANITARY SEWER
	STORM DRAIN
	SUB DRAIN
	DRAIN LINE
	FIRE WATER SERVICE
	GAS PIPELINE
	OVERHEAD UTILITY LINES
	HOT WATER SUPPLY & RETURN
	IRRIGATION
	WATER SERVICE
	ELECTRIC SERVICE
	COMMUNICATIONS
	CAPPED OR PLUGGED PIPE STUB FOR FUTURE EXTENSION

DESCRIPTION	SYMBOL
NORTH ARROW	
MATCH LINE	
CIVIL SECTION	
VIEW REFERENCE	
SURVEY CONTROL POINT	
SPOT ELEVATION	+ 740.00
GRADE SLOPE W/ APPROX. SLOPE PERCENTAGE	X.X %
OVERHEAD UTILITY POLE	
OVERHEAD UTILITY POLE W/ GUY ANCHOR	
STREET LIGHT	
FIRE DEPT CONNECTION	
FIRE HYDRANT	
WATER METER	
QUICK COUPLING VALVE	
CATCH BASIN	
STORM DRAIN MANHOLE/STRUCTURE	
BACKFLOW PREVENTER	
DOUBLE DETECTOR CHECK VALVE	
POINT OF CONNECTION	
SEWER MANHOLE	
CLEANOUT	
BOLLARD	
TREE (TO REMAIN)	
TREE (TO BE REMOVED)	

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SOLANO COUNTY SB 1022 CLASSROOM AND VOCATIONAL TRAINING CENTER
2500 CLAYBANK ROAD
FAIRFIELD, CA 94533

SOLANO COUNTY

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
CIVIL ABBREVIATIONS, SYMBOLS & NOTES

SCALE: 0 1/2
BAR IS ONE INCH ON ORIGINAL. DRAWING, IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

No.	Description	Date
1	ADDENDUM #3	2/21/2017
2	SFM BACK CHK 1	8/11/2017
3	BULLETIN #4	9/19/2017
4		
5		

JOB NO. 4907A3
DATE 11/9/2016
SHEET
C001

C:\BIM\CLAYBANK\VOCD - hntberger.rvt

NOTE:

① FOR STORM DRAIN SYSTEM NOTES AND CALLOUTS, SEE SHEET C305.

CONSTRUCTION KEY NOTES:

- ① INSTALL PVC SEWER LINE; SIZE, LENGTH AND SLOPE (MIN. SLOPE = 2.0%) PER PLAN.
- ② INSTALL PVC SEWER LATERAL TO BUILDING POC; SIZE, LENGTH PER PLAN. MIN SLOPE = 2.0% U.N.O.
- ③ INSTALL SEWER CLEANOUT PER CITY OF FAIRFIELD STANDARD DETAIL #32 ON SHEET C402; INVERT PER PLAN.
- ④ CONNECT NEW SEWER LINE TO (E) SEWER MANHOLE; INVERTS PER PLAN. REFER TO CITY OF FAIRFIELD FOR CONNECTION REQUIREMENTS.
- ⑤ INSTALL SEWER MANHOLE PER CITY OF FAIRFIELD STANDARD DETAIL #30 ON SHEET C402; INVERT PER PLAN. SEWER MANHOLE COVER SHALL BE INSTALLED WITH SANITARY SEWER MANHOLE SECURITY LOCK RBP2034 OR APPROVED EQUAL.
- ⑥ INSTALL 8" X 8" WATTS FD-330 AREA DRAIN OR APPROVED EQUAL. SEE DETAIL, SHEET C405.
- ⑦ INSTALL JENSEN 360 SERIES PUMP STATION OR APPROVED EQUAL. SEE DETAIL, SHEET C405.
- ⑧ INSTALL GRUNDFOS DUPLEX LEVEL CONTROLLER PANEL AND DISCONNECT OR APPROVED EQUAL. PROVIDE NECESSARY UNDERGROUND CONDUIT IN TRENCH TO CONNECT TO SEWER LIFT STATION.

CONSTRUCTION KEY NOTES:

- W1 INSTALL DOMESTIC WATER LINE (SIZE PER PLAN) WITH THRUST BLOCKS PER CITY OF FAIRFIELD DETAILS #43 AND #44, AND TRACER WIRES PER DETAIL #69, ON SHEET C404.
- W2 INSTALL 2" COMPOUND TYPE WATER METER PER CITY OF FAIRFIELD STANDARD DETAIL #34, ON SHEET C403.
- W3 NOT USED.
- W4 CONNECT NEW WATER LINE TO EXISTING PER CITY OF FAIRFIELD STANDARD DETAIL #35 ON SHEET C403.
- W5 INSTALL WATER VALVE PER CITY OF FAIRFIELD STANDARD DETAIL #38 ON SHEET C403. VALVE COVER TO BE TRAFFIC RATED.
- W6 PROVIDE EXTERIOR HOSE BIB. SEE PLUMBING SCHEDULE FOR MORE INFORMATION.
- W7 INSTALL ¾" DOMESTIC WATER LINE.
- W8 CONNECT TO DOMESTIC WATER LINE.
- F1 INSTALL PVC FIRE WATER LINE (SIZE PER PLAN) WITH THRUST BLOCKS PER CITY OF FAIRFIELD DETAILS #43 AND #44, AND TRACER WIRES PER DETAIL #69, ON SHEET C404.
- F2 INSTALL 4" DIA. PVC FIRE WATER LINE (SPRINKLER SERVICE) WITH THRUST BLOCKS PER CITY OF FAIRFIELD DETAILS #43 AND #44, AND TRACER WIRES PER DETAIL #69, ON SHEET C404.
- F3 INSTALL 8" DIA. PVC FIRE WATER LINE (SPRINKLER SERVICE) WITH THRUST BLOCKS PER CITY OF FAIRFIELD DETAILS #43 AND #44, AND TRACER WIRES PER DETAIL #69, ON SHEET C404.
- F4 INSTALL FIRE HYDRANT, FIRE WATER LATERAL, AND VALVE PER CITY OF FAIRFIELD STANDARD DETAIL #37 ON SHEET C403.
- F5 INSTALL 4" DIA STEEL PIPE, CONCRETE-FILLED BOLLARDS ADJACENT TO FIRE HYDRANT OR FIRE DEPARTMENT CONNECTION, PER DETAIL 9 ON SHEET A110. PLACE BOLLARDS NOT LESS THAN 3 FEET AWAY FROM THE HYDRANT. SPACE BOLLARDS NOT MORE THAN 4' BETWEEN POSTS ON CENTER.
- F6 INSTALL 8" DOUBLE DETECTOR CHECK ASSEMBLY PER CITY OF FAIRFIELD STANDARD DETAIL W10 ON SHEET C403.
- F7 INSTALL FIRE DEPARTMENT CONNECTION ON FIRE SPRINKLER SERVICE LINE WITH SIGNAGE INDICATING BUILDING SERVED.
- F8 CONNECT NEW FIRE WATER LINE TO EXISTING. REFER TO CITY OF FAIRFIELD STANDARDS FOR CONNECTION REQUIREMENTS.
- F9 INSTALL POST INDICATOR VALVE.
- F10 INSTALL 6" X 8" X 10" TEE.
- G1 INSTALL NEW YELLOW POLYETHYLENE GAS LINE PER PG&E GAS DESIGN STANDARD A-90; SIZE PER PLAN.
- G2 GAS METER (TO BE INSTALLED BY PG&E).
- G3 GAS POC.
- E1 LOCATION FOR NEW ELECTRIC CAR CHARGING SYSTEM; REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- E2 INSTALL NEW 4" DIA. PVC FOR ELECTRICAL.
- C1 CONNECT TO EXISTING COMCAST HANDHOLE.
- C2 ENHANCEMENT #1: PROVIDE ONE (1) TWO INCH CONDUIT FROM ROAD PULL BOX TO BLDG A FOR FUTURE INTERNET CABLE
- C3 INSTALL NEW 2" DIA. PVC FOR COMCAST.
- C4 INSTALL NEW 4" DIA. PVC FOR AT&T.
- C5 SEE ELECTRICAL PLANS FOR EXTENSION OF PG&E, AT&T, AND COMCAST.
- C6 INSTALL HANDHOLE FOR AT&T AND COMCAST SERVICES.
- A1 INSTALL CARD READER PER DETAIL 1 ON SHEET A805 AND SHEET ES201-ES203.



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2500 CLAYBANK ROAD
FAIRFIELD, CA 94533

SOLANO COUNTY

PROJECT STATUS:

100% CONSTRUCTION
DOCUMENTS

SHEET TITLE:

CIVIL SITE UTILITY
PLAN - 1 OF 2

SCALE:



BAR IS ONE INCH ON ORIGINAL.
DRAWING. IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

No.	Description	Date
1	REVISION #1	1/20/2017
2	PLAN SUBMITTAL SEWER PIPE REVISION	7/18/2017
3	BULLETIN #2	7/31/2017
4	BULLETIN #3	8/10/2017
5	BULLETIN #3.2	8/14/2017
6	BULLETIN #4	9/19/2017

JOB NO.

4907A3

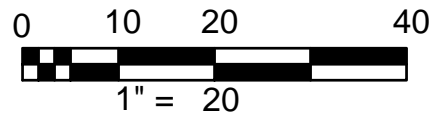
DATE

11/9/2016

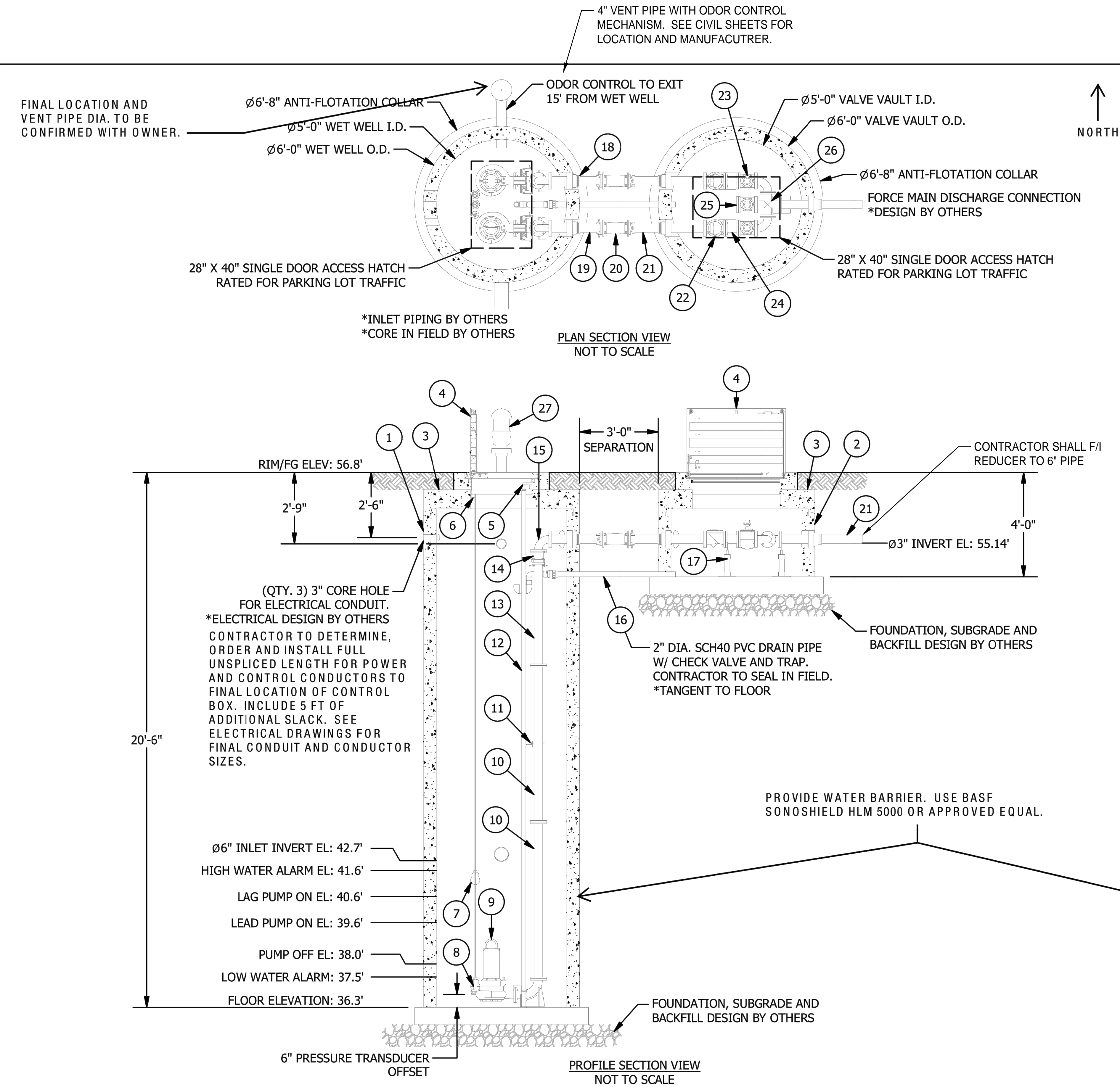
SHEET

C400

1 CIVIL UTILITY PLAN



10/14/2016 7:39:09 AM



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	60" DIA. JENSEN PRECAST CONCRETE MANHOLE 20'-6" DEEP (RIM TO SUMP)
2	1	60" DIA. JENSEN PRECAST CONCRETE MANHOLE 4'-0" DEEP
3	2	60" DIA. JENSEN PRECAST CONCRETE FLAT TOP
4	2	28"X40" JENSEN METALTECH STEEL ACCESS HATCH AND CONCRETE RISER, RATED FOR PARKING LOT TRAFFIC, RECESSED LOCK (MIN. H-20-44)
5	2	UPPER GUIDE RAIL BRACKET BY HOMA PUMPS
6	1	SS 3-HOOK FLOAT BRACKET
7	2	OPTICAL FLOAT SWITCH BY OPTI-FLOAT
8	1	SS SUBMERSIBLE PRESSURE TRANSDUCER, 15 PSI, 100' CORD LENGTH
9	2	HOMA SUBMERSIBLE NON-CLOG PUMP WITH AUTO COUPLING, 3" FLANGED DISCHARGE, THERMAL AND SEAL FAIL SENSORS, STANDARD CABLE LENGTH OF 50FT, EXTERIOR COATED WITH HIGH SOLIDS POLYAMIDE EPOXY.
10	4	3" DIA. DIP FLG x FLG SPOOL 6'-0" LENGTH
11	2	INTERMEDIATE GUIDE RAIL BRACKET
12	82	L.F. 1.5" DIA. 304SS GUIDE RAIL PIPE CUT TO LENGTH
13	2	3" DIA. DIP FLG x PE SPOOL 4'-3" LENGTH
14	2	3" DIA. RFCA W/ SS HARDWARE BY ROMAC
15	4	3" DIA. DIP FLG 90 ELBOW
16	1	2" SCH40 PVC DRAIN WITH CHECK VALVE, TRAP, PIPE AND FITTINGS
17	3	ADJUSTABLE PIPE STAND, FLG STYLE, FOR 3" DIA. DIP
18	5	FLEXIBLE PIPE CONNECTOR MEETS ASTM A-923
19	2	3" DIA. DIP FLG x PE SPOOL 2'-7" LENGTH
20	2	3" DIA. DIP MJ SLEEVE (LONG) W/ RESTRAINTS, SS HARDWARE
21	3	3" DIA. DIP FLG x PE SPOOL 3'-2" LENGTH
22	2	3" DIA. SWING-FLEX CHECK VALVE, FLG X FLG
23	3	3" DIA. PLUG VALVE BY VAL-MATIC (DIRECT 2" NUT DRIVE, MODEL #5803RN)
24	2	3" DIA. DIP FLG x FLG SPOOL 0'-6" LENGTH
25	1	3" DIA. DI BLIND FLANGE
26	1	3" DI FLG CROSS
27	1	WAGER 1800 ODOR CONTROL SEWER VALVE W/ PIPING & FITTINGS

SYSTEM CHARACTERISTICS	
DESCRIPTION	VALUE
DUTY POINT	139 gpm @ 31.2' TDH
MANUFACTURER	HOMA
MODEL NUMBER	AMS336-230/3.8T/C FM
PUMP TYPE	SUBMERSIBLE PUMP
MOTOR SIZE	3.8 hp , 5.5 A
MAX PUMP RUN SPEED	1160
AVAILABLE POWER	460 V , 3 Ph
WET WELL LINER/COATING	WATERPROOF (EXTERIOR)
ACCESS HATCH LOADING CRITERIA	PARKING LOT TRAFFIC

JENSEN PRECAST CONTACT PERSON:
Mariam Ahmad
Project Manager
Direct: (775) 440-2000

DISCLAIMERS, INCLUDING BUT NOT LIMITED TO:

- 1.) Elevations provided by others. Changes greater than 0.1' require engineer approval. Field elevations have not been verified by Jensen Precast. Refer to Jensen Precast concrete production drawings for concrete excavation. These mechanical drawings are not intended for setting of precast structures.
- 2.) Pump station design characteristics such as, but not limited to; inflow rate, on-site power availability, etc., were provided by the engineer of record.
- 3.) Purchasing agent must verify pump station complies with engineering plans, specifications, and site conditions prior to production.
- 4.) Site assembly required. Purchasing agent is responsible for assembly of entire pump station. Includes but is not limited to; off-loading & setting of concrete material, piping assembly, and electrical wiring.
- 5.) Location of control panel must be disclosed to Jensen Precast.

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PROJECT:
SB 1022 CLASSROOM & TRAINING CENTER

MECHANICAL DETAIL

DATE: SEPT. 2017

DRAWN BY: CAP

SHEET NO: 2 of 2

JENSEN.
PUMP STATIONS
521 DUNN CIRCLE, SPARKS, NV 89431
JensenPumps.com
(855) 468-5600



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AND VOCATIONAL TRAINING CENTER

2500 CLAYBANK ROAD
FAIRFIELD, CA 94533

SOLANO COUNTY

PROJECT STATUS:

**100% CONSTRUCTION
DOCUMENTS**

SHEET TITLE:

**SEWER LIFT STATION
(REFERENCE DRAWING)**

SCALE:

0 1/2"

BAR IS ONE INCH ON ORIGINAL
DRAWING. IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

No.	Description	Date
1	BULLETIN #4	9/19/2017
2		
3		
4		
5		

JOB NO.

4907A3

DATE

11/9/2016

SHEET

4907A3

DATE

11/9/2016

C405

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